



June 15, 2016

Meagan E. Ormand Golder Associates Inc. 2108 W. Laburnum Ave. Suite 200 Richmond, VA 23227

RE: Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

Dear Meagan Ormand:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole Gasiorowski

Micolo Yasiorovske

nicole.gasiorowski@pacelabs.com

Project Manager

Enclosures





9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092



June 15, 2016 Page 2

cc: Ron DiFrancesco, Golder Associates Inc. Martha Smith, Golder Associates Inc. Mike Williams, Golder Associates Inc



9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092



CERTIFICATIONS

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174

Alabama Certification #: 41320 Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079 Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007

Maryland Certification: #346 Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

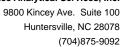
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 Wyoming Certification: FL NELAC Reciprocity

West Virginia Certification #: 9962C Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity





SAMPLE ANALYTE COUNT

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92301121001	T2-160613-1024-S3	EPA 200.7	CKJ	8	PASI-O
92301121002	T4-160613-0927-S3	EPA 200.7	CKJ	8	PASI-O



PROJECT NARRATIVE

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

Method: EPA 200.7
Description: 200.7 MET ICP

Client: Golder_Dominion_Bremo

Date: June 15, 2016

General Information:

2 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

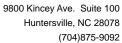
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.





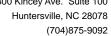
ANALYTICAL RESULTS

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

Date: 06/15/2016 10:35 AM

Sample: T2-160613-1024-S3	Lab ID: 9230	1121001	Collected: 06/13/1	6 10:2	4 Received: 06	6/13/16 13:50 N	Matrix: Water	•
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Meth	od: EPA 20	0.7 Preparation Met	hod: El	PA 200.7			
Aluminum	302	ug/L	100	1	06/14/16 11:40	06/14/16 17:50	7429-90-5	
Barium	207	ug/L	10.0	1	06/14/16 11:40	06/14/16 17:50	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/14/16 11:40	06/14/16 17:50	7440-41-7	
Boron	656	ug/L	50.0	1	06/14/16 11:40	06/14/16 17:50	7440-42-8	
Cobalt	ND	ug/L	10.0	1	06/14/16 11:40	06/14/16 17:50	7440-48-4	
Iron	ND	ug/L	250	1	06/14/16 11:40	06/14/16 17:50	7439-89-6	
Molybdenum	109	ug/L	10.0	1	06/14/16 11:40	06/14/16 17:50	7439-98-7	
Vanadium	28.5	ug/L	10.0	1	06/14/16 11:40	06/14/16 17:50	7440-62-2	





ANALYTICAL RESULTS

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

Date: 06/15/2016 10:35 AM

Sample: T4-160613-0927-S3	Lab ID: 9230	1121002	Collected: 06/13/1	6 09:2	7 Received: 06	6/13/16 13:50	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Meth	od: EPA 20	0.7 Preparation Met	hod: El	PA 200.7			
Aluminum	288	ug/L	100	1	06/14/16 11:40	06/14/16 18:0	1 7429-90-5	
Barium	212	ug/L	10.0	1	06/14/16 11:40	06/14/16 18:01	1 7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/14/16 11:40	06/14/16 18:01	1 7440-41-7	
Boron	624	ug/L	50.0	1	06/14/16 11:40	06/14/16 18:01	1 7440-42-8	
Cobalt	ND	ug/L	10.0	1	06/14/16 11:40	06/14/16 18:01	1 7440-48-4	
Iron	ND	ug/L	250	1	06/14/16 11:40	06/14/16 18:01	1 7439-89-6	
Molybdenum	99.3	ug/L	10.0	1	06/14/16 11:40	06/14/16 18:01	1 7439-98-7	
Vanadium	25.5	ug/L	10.0	1	06/14/16 11:40	06/14/16 18:01	1 7440-62-2	



QUALITY CONTROL DATA

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

Date: 06/15/2016 10:35 AM

QC Batch: MPRP/31048 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET

Associated Lab Samples: 92301121001, 92301121002

METHOD BLANK: 1605824 Matrix: Water

Associated Lab Samples: 92301121001, 92301121002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Farameter				Analyzeu	
Aluminum	ug/L	ND	100	06/14/16 17:30	
Barium	ug/L	ND	10.0	06/14/16 17:30	
Beryllium	ug/L	ND	1.0	06/14/16 17:30	
Boron	ug/L	ND	50.0	06/14/16 17:30	
Cobalt	ug/L	ND	10.0	06/14/16 17:30	
Iron	ug/L	ND	250	06/14/16 17:30	
Molybdenum	ug/L	ND	10.0	06/14/16 17:30	
Vanadium	ug/L	ND	10.0	06/14/16 17:30	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1 diameter						Qualificis
Aluminum	ug/L	5000	4890	98	85-115	
Barium	ug/L	500	497	99	85-115	
Beryllium	ug/L	50	50.3	101	85-115	
Boron	ug/L	2500	2550	102	85-115	
Cobalt	ug/L	500	514	103	85-115	
Iron	ug/L	2000	1960	98	85-115	
Molybdenum	ug/L	500	508	102	85-115	
Vanadium	ug/L	500	502	100	85-115	

MATRIX SPIKE & MATRIX SPI	KE DUPLICAT	E: 16058	26		1605827						
			MS	MSD							
	923	301121001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Aluminum	ug/L	302	5000	5000	5350	5360	101	101	70-130		
Barium	ug/L	207	500	500	718	720	102	103	70-130	0	
Beryllium	ug/L	ND	50	50	52.6	53.2	105	106	70-130	1	
Boron	ug/L	656	2500	2500	3310	3310	106	106	70-130	0	
Cobalt	ug/L	ND	500	500	520	520	104	104	70-130	0	
Iron	ug/L	ND	2000	2000	2090	2070	101	100	70-130	1	
Molybdenum	ug/L	109	500	500	625	625	103	103	70-130	0	
Vanadium	ug/L	28.5	500	500	550	561	104	106	70-130	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

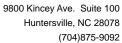
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 06/15/2016 10:35 AM

PASI-O Pace Analytical Services - Ormond Beach





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BREMO MONTHLY PROCESS

Pace Project No.: 92301121

Date: 06/15/2016 10:35 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92301121001	T2-160613-1024-S3	EPA 200.7	MPRP/31048	EPA 200.7	ICP/18521
92301121002	T4-160613-0927-S3	EPA 200.7	MPRP/31048	EPA 200.7	ICP/18521

Pace Analytical*

Document Name:

Sample Condition Upon Receipt(SCUR)

Document No.: F-MEC-CS-009-Rev.03

Document Revised: May 24, 2016 Page 1 of 2

Issuing Authority:

Pace Mechanicsville Quality Office

Page 2 of 2 for Internal Use ONLY

Sample Condition Upo Receipt	Client Name:	0			Project # WO#: 92301121
0 10	_Joider/	Bren	ND_		
Courier:	Fed Ex UPS		SPS .		☐Client
Commercia !	∭Pace	∐Ot	her:	_	92301121
Custody Seal Present?	Yes No Sea	ls Intact?	ΔY	es [□No
Packing Material:	Bubble Wrap	ubble Bags		lone	Date/Initials Person Examining Contents: 056
Thermometer:		22012 2083	٠.,	1	ROU
₩ RMD001		Туре с		Wet	Blue None Samples on ice, cooling process has begun
Correction Factor: 0.0°C	Cooler Temp Corrected (°C	c): <u>2 . i</u>	\bigcirc		Biological Tissue Frozen? Yes No N/A
Temp should be above fre USDA Regulated Soil (
	uarantine zone within the Unite	nd States: C	A NV or	SC Ichack	k maps)? Did samples originate from a foreign source (internationally,
□Yes □No		u states. Cr	3, 141, 01	oc (check	including Hawaii and Puerto Rico)? Yes No
					Comments/Discrepancy:
Chain of Custody Present?		Yes	□No	□N/A	1.
Samples Arrived within Hold	Time?	Yes	□No	□N/A	2.
Short Hold Time Analysis (<	72 hr.)?	Yes	No	□N/A	
Rush Turn Around Time Req	uested?	Yes	□No	□N/A	
Sufficient Volume?		Yes	□No	□N/A	,
Correct Containers Used?		Yes	□No	□N/A	
-Pace Containers Used?		Yes	□No	□N/A	
Containers Intact?		Yes	□No	□N/A	7.
Samples Field Filtered?		□Yes	□No	MN/A	8. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	- TT	Yes	□No	□n/a	9.
-Includes Date/Time/ID/A					
All containers needing acid/b checked?	ase preservation have been		П.,		10. HNG3 pH<2
All containers needing preser	vation are found to be in	Yes	□No	□N/A	на рнк2
compliance with EPA recomm	nendation?	1			H2S04 pH<2
(HNO ₃ , H ₂ SO ₄ , HCI<2; NaOH >	9 Sulfide, NaOH>12 Cyanide)	✓Yes	□No	□N/A	NaOH pH>12
Exceptions: VOA, Coliform, To DRO/8015 (water) DOC,LLHg	OC, Oil and Grease,	Пу	П.,		NaOH/ZnOAc pH>9
Samples checked for dechlori	nation?	☐Yes ☐Yes	□No □No	□N/A □N/A	
Headspace in VOA Vials (>5-6	mm)?	Yes	□No	N/A	12.
Trip Blank Present?		Yes	□No	MN/A	13.
Trip Blank Custody Seals Pres	ent?	□Yes	□No	N/A	
Pace Trip Blank Lot # (if purch	ased):	Д.63	Ш.,,	LSI.17/A	
CLIENT NO	TIFICATION/RESOLUTION				Field Data Required? Yes No
					non-ran nequines into Mino
Person Contacted:		~~~			Date/Time:
Comments/Sample Discrepancy:					
* **					
8 8					
Project Manager SCUR	F Review:	NV	NG		Date: 6 14 16
Project Manager SRF F	Review:	N	MG		12/14/11
Note: Whenever there is a dis	crepancy affecting North Carolin	a compliance		s, a copy o	Date: U M M Service (i.e. of this form will be sent to the North Carolina DEHNR Certification Office (i.e.
Out of hold, incorrect preserve	ative, out of temp, incorrect cont	ainers)			



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Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Pace Analytical Services Suite 100 9800 Kincey Ave Huntersville NC 28078

Report Date: June 15, 2016

Project: Bremo

Submittal Date: 06/14/2016 Group Number: 1671588 PO Number: NMA 15620 State of Sample Origin: VA

 Client Sample Description
 (LL) #

 T2-160613-1024-S3 Water Sample
 8424238

 T4-160613-0927-S3 Water Sample
 8424239

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/.

Electronic Copy To Pace Analytical Services Attn: Nicole Gasiorowski

Respectfully Submitted,

Bonnie Stadelmann Senior Project Manager

Bornie Stadelmann

(312) 590-3133



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: T2-160613-1024-S3 Water Sample

92301121001

92301121

LL Sample # WW 8424238 LL Group # 1671588

Account # 10945

1

Project Name: Bremo

Submitted: 06/14/2016 09:30

Reported: 06/15/2016 10:23

Collected: 06/13/2016 10:24 Pace Analytical Services

Suite 100

9800 Kincey Ave

Huntersville NC 28078

CAT No. Analysis Name CAS Number Result Limit of Dilution Factor

 Wet Chemistry
 OIA-1677-09
 mg/l
 mg/l

 12941 Free Cyanide
 n.a.
 < 10.0</td>
 10.0

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
12941	Free Cyanide	OIA-1677-09	1	16166941101A	06/14/2016 12:19	Joseph E McKenzie	1



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: T4-160613-0927-S3 Water Sample

92301121002

92301121

LL Sample # WW 8424239 LL Group # 1671588 Account # 10945

1

Project Name: Bremo

Submitted: 06/14/2016 09:30

Reported: 06/15/2016 10:23

Collected: 06/13/2016 09:27 Pace Analytical Services

Suite 100

9800 Kincey Ave

Huntersville NC 28078

CAT No. Analysis Name CAS Number Result Limit of Dilution Factor

 Wet Chemistry
 OIA-1677-09
 mg/l
 mg/l

 12941 Free Cyanide
 n.a.
 < 10.0</td>
 10.0

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
12941	Free Cyanide	OIA-1677-09	1	16166941101A	06/14/2016 12:25	Joseph E McKenzie	1



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Group Number: 1671588 Client Name: Pace Analytical Services

Reported: 06/15/2016 10:23

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name Result mq/1mg/l

Sample number(s): 8424238-8424239 Batch number: 16166941101A 10.0

Free Cyanide

LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16166941101A Free Cyanide	Sample number 0.0400	r(s): 8424 0.0392	238-8424239		98		86-132		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16166941101A Free Cyanide	Sample numb	er(s): 8424 0.0200	238-8424	239 UNSPK: 0.0200	8424238 0.0202	97	101	86-132	4*	3

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

A-10945 6-1671588 5-8424238-39

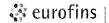


Work	order	: 92301121 V	Norkorder Na	ıme:	BREMO N	ONTHLY PR	OCES	ss		Resi	ılts Re	quested By	: 6/14/20	116		
Repor	t/Invo	ice To		Subcont	ract To							Requested	Analysis	en en en en en		
Pace / 9800 Hunte Phone Email	Analyti Kincey rsville, e (704) : nicole	orowski cal Charlotte Ave, Suite 100 NC 28078 875-9092 .gasiorowski@pacelabs	s.com 242	5 NE		notion P.O. absoratoriand Pike 174001		na 1	5620	yanide	1-10++					
State of Sample Origin: $\vee \wp$						Pro	served C	ontainers	191	対 						
ltem	Samp	ile ID	Collect Date/Time	.	Lab ID	Matrix	JOSEP 1			Free						LAB USE ONLY
1	T2-160	0613-1024-\$3	6/13/2016	10:24	92301121001	Water	2			Х						
2	T4-160	0613-0927-S3	6/13/2016	09:27	92301121002	Water	1			Х						
3																
4	1									T						
5																
¥,92(1.4)							4484			35.87			Cor	nments		
Trans	fers	Released By		Date/Tim	e Rece	ived By			Date/Tin	ne						
1		Rashel Bur	russ_	4-13-	16 1700											
2																
3									6 14-14 <i>)</i>	130				***************************************		
Cool	er Ter	nperature on Receip	t z/3 °C	С	ustody Sea	I Y or N	>	Re	eceived or	ı Ice	O or	N	Sai	nples Int	act	Yor N

Monday, June 13, 2016 5:21:02 PM

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1



Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID:

150174

Group Number(s): 167158 8

Client: Pace Analytical

Delivery and Receipt Information

Delivery Method:

Fed Ex

Arrival Timestamp:

06/14/2016 9:30

Number of Packages:

1

Number of Projects:

1

State/Province of Origin:

<u>VA</u>

Arrival Condition Summary

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

Yes

Sample Date/Times match COC:

Yes

Custody Seal Intact:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Samples Chilled:

Yes

Total Trip Blank Qty:

0

Paperwork Enclosed:

Yes

Air Quality Samples Present:

No

Samples Intact:

Yes

Missing Samples:

No

Extra Samples:

No

Discrepancy in Container Qty on COC:

No

Unpacked by Timothy Cubberley (6520) at 10:12 on 06/14/2016

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler#

Thermometer ID 32170023

2.3

Corrected Temp Therm. Type IR

Ice Type Wet

Ice Present?

Ice Container Loose

Elevated Temp? N



Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mĹ	milliliter(s)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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